



April 26, 2016

Meagan E. Ormand Golder Associates Inc. 2108 W. Laburnum Ave. Suite 200 Richmond, VA 23227

RE: Project: BREMO

Pace Project No.: 92295107

#### Dear Meagan Ormand:

Enclosed are the analytical results for sample(s) received by the laboratory on April 25, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nicole Gasiorowski

Micolo Yasiorovske

nicole.gasiorowski@pacelabs.com

**Project Manager** 

Enclosures





(704)875-9092



April 26, 2016 Page 2

cc: Ron DiFrancesco, Golder Associates Inc. Mike Williams, Golder Associates Inc



#### **REPORT OF LABORATORY ANALYSIS**

9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092



#### **CERTIFICATIONS**

Project: BREMO
Pace Project No.: 92295107

#### **Ormond Beach Certification IDs**

8 East Tower Circle, Ormond Beach, FL 32174 Alabama Certification #: 41320

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

Florida Certification #: E83079 Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity Hawaii Certification: FL NELAC Reciprocity Illinois Certification #: 200068 Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Louisiana Certification #: FL NELAC Reciprocity Louisiana Environmental Certificate #: 05007

Maryland Certification: #346 Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236 Montana Certification #: Cert 0074 Nebraska Certification: NE-OS-28-14 Nevada Certification: FL NELAC Reciprocity

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity

US Virgini Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165

Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

#### REPORT OF LABORATORY ANALYSIS





#### **SAMPLE ANALYTE COUNT**

Project: BREMO
Pace Project No.: 92295107

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92295107001	T3-160425-1125-S3	EPA 200.7	MEW	8	PASI-O
92295107002	T4-160425-1200-S3	EPA 200.7	MEW	8	PASI-O

#### **REPORT OF LABORATORY ANALYSIS**



#### **PROJECT NARRATIVE**

Project: BREMO
Pace Project No.: 92295107

Method: EPA 200.7
Description: 200.7 MET ICP

Client: Golder\_Dominion\_Bremo

**Date:** April 26, 2016

#### **General Information:**

2 samples were analyzed for EPA 200.7. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

#### **Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

#### Sample Preparation:

The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

#### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

#### **Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

#### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

#### **Laboratory Control Spike:**

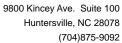
All laboratory control spike compounds were within QC limits with any exceptions noted below.

#### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### **Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.





#### **ANALYTICAL RESULTS**

Project: BREMO
Pace Project No.: 92295107

Date: 04/26/2016 06:28 PM

Sample: T3-160425-1125-S3	Lab ID: 9229	5107001	Collected: 04/25/1	6 11:2	5 Received: 04	/25/16 14:55	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Meth	od: EPA 20	0.7 Preparation Met	hod: E	PA 200.7			
Aluminum	1730	ug/L	100	1	04/26/16 12:15	04/26/16 17:23	7429-90-5	
Barium	20.6	ug/L	10.0	1	04/26/16 12:15	04/26/16 17:23	7440-39-3	
Beryllium	ND	ug/L	1.0	1	04/26/16 12:15	04/26/16 17:23	7440-41-7	
Boron	52.9	ug/L	50.0	1	04/26/16 12:15	04/26/16 17:23	7440-42-8	
Cobalt	ND	ug/L	10.0	1	04/26/16 12:15	04/26/16 17:23	7440-48-4	
Iron	ND	ug/L	250	1	04/26/16 12:15	04/26/16 17:23	7439-89-6	
Molybdenum	ND	ug/L	10.0	1	04/26/16 12:15	04/26/16 17:23	7439-98-7	
Vanadium	ND	ug/L	10.0	1	04/26/16 12:15	04/26/16 17:23	7440-62-2	

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#### **ANALYTICAL RESULTS**

Project: BREMO
Pace Project No.: 92295107

Date: 04/26/2016 06:28 PM

Sample: T4-160425-1200-S3	Lab ID: 9229	5107002	Collected: 04/25/1	16 12:0	0 Received: 04	/25/16 14:55	Matrix: Water	•
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Meth	od: EPA 20	0.7 Preparation Met	thod: E	PA 200.7			
Aluminum	211	ug/L	100	1	04/26/16 12:15	04/26/16 17:35	7429-90-5	
Barium	46.7	ug/L	10.0	1	04/26/16 12:15	04/26/16 17:35	7440-39-3	
Beryllium	ND	ug/L	1.0	1	04/26/16 12:15	04/26/16 17:35	7440-41-7	
Boron	412	ug/L	50.0	1	04/26/16 12:15	04/26/16 17:35	7440-42-8	
Cobalt	ND	ug/L	10.0	1	04/26/16 12:15	04/26/16 17:35	7440-48-4	
Iron	ND	ug/L	250	1	04/26/16 12:15	04/26/16 17:35	7439-89-6	
Molybdenum	24.9	ug/L	10.0	1	04/26/16 12:15	04/26/16 17:35	7439-98-7	
Vanadium	ND	ug/L	10.0	1	04/26/16 12:15	04/26/16 17:35	7440-62-2	



#### **QUALITY CONTROL DATA**

Project: BREMO
Pace Project No.: 92295107

Date: 04/26/2016 06:28 PM

QC Batch: MPRP/30071 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 MET

Associated Lab Samples: 92295107001, 92295107002

METHOD BLANK: 1553361 Matrix: Water

Associated Lab Samples: 92295107001, 92295107002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	100	04/26/16 17:16	
Barium	ug/L	ND	10.0	04/26/16 17:16	
Beryllium	ug/L	ND	1.0	04/26/16 17:16	
Boron	ug/L	ND	50.0	04/26/16 17:16	
Cobalt	ug/L	ND	10.0	04/26/16 17:16	
Iron	ug/L	ND	250	04/26/16 17:16	
Molybdenum	ug/L	ND	10.0	04/26/16 17:16	
Vanadium	ug/L	ND	10.0	04/26/16 17:16	

Demonstra	11-26-	Spike	LCS	LCS	% Rec	0
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Aluminum	ug/L	2500	2540	102	85-115	
Barium	ug/L	250	261	104	85-115	
Beryllium	ug/L	25	26.1	104	85-115	
Boron	ug/L	2500	2520	101	85-115	
Cobalt	ug/L	250	266	106	85-115	
Iron	ug/L	2500	2470	99	85-115	
Molybdenum	ug/L	250	255	102	85-115	
Vanadium	ug/L	250	253	101	85-115	

MATRIX SPIKE & MATRIX SPIK	E DUPLICAT	E: 15533	63		1553364						
			MS	MSD							
	922	295105001	Spike	Spike	MS	MSD	MS	MSD	% Rec		
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	Qual
Aluminum	ug/L	1730	2500	2500	4170	4210	98	99	70-130	1	
Barium	ug/L	20.6	250	250	275	278	102	103	70-130	1	
Beryllium	ug/L	ND	25	25	24.6	24.8	98	99	70-130	1	
Boron	ug/L	52.9	2500	2500	2440	2460	95	96	70-130	1	
Cobalt	ug/L	ND	250	250	260	262	104	104	70-130	1	
Iron	ug/L	ND	2500	2500	2460	2460	96	96	70-130	0	
Molybdenum	ug/L	ND	250	250	263	266	102	103	70-130	1	
Vanadium	ug/L	ND	250	250	250	249	99	99	70-130	0	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**

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#### **QUALIFIERS**

Project: BREMO
Pace Project No.: 92295107

#### **DEFINITIONS**

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

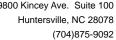
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

#### **LABORATORIES**

Date: 04/26/2016 06:28 PM

PASI-O Pace Analytical Services - Ormond Beach





#### **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: BREMO
Pace Project No.: 92295107

Date: 04/26/2016 06:28 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92295107001	T3-160425-1125-S3	EPA 200.7	MPRP/30071	EPA 200.7	ICP/17959
92295107002	T4-160425-1200-S3	EPA 200.7	MPRP/30071	EPA 200.7	ICP/17959

# Pace Analytical\*

## Document Name: Sample Condition Upon Receipt(SCUR)

Document No.: F-MEC-CS-009-rev.02 Document Revised: 26FEB2016 Page 1 of 2

Issuing Authority: Pace Mechanicsville Quality Office

Sample Condition Upon Client Name:	ï					L	IO#		205	107
Courier:	Ider				Project #	t:		364	293	TO/
Commercial Fed Ex	UPS [	USPS Other:			Client		295107			
Custody Seal Present? Yes	o Seals Intac	(C)	Yes	ΠN	0	92	295107			
Packing Material: Bubble Wrap Thermometer: RMD001  Correction Factor: 0.0°C Cooler Temp Cor Temp should be above freezing to 6°C USDA Regulated Soil ( N/A, water sample) Did samples originate in a quarantine zone within	rected (°C):	pe of Ice: ろ.2		t [	Other:  Blue	None ogical T	issue Froze	Samples on i	ce, cooling (	ts:4-25-11 RSB process has begu No N/A
					incl	uding Ha	andi and F	ierro Kicols	n source (in Yes	ternationally,
Chain of Custody Present?	Δ.Y	os 🗆		-			COMI	MENTS:		
Chain of Custody Filled Out?										
Chain of Custody Relinquished?	<u> </u>			2.						
Sampler Name and/or Signature on COC?				_						
Samples Arrived within Hold Time?	ŬY€		D N/A	4.						
Short Hold Time Analysis (<72 hr)?	<b>□</b> Y∈	s No	DN/A	5.						
Rush Turn Around Time Requested?	Ye	s No	DN/A	6.						
Sufficient Volume?		s 🔲 No	□N/A	7.	day	1 1	AT			
Correct Containers Used?	Ye	s 🔲 No	□N/A	8.		2	7.11			
-Pace Containers Used?	ΣΥe	s □No	□N/A	9.						
	Yes	□N <sub>0</sub>	□N/A							
Containers Intact?	Yes	□No	□N/A	10.						
Filtered Volume Received for Dissolved Tests?	□Yes		N/A	T						
Sample Labels Match COC?	Yes		Later of the same	11.	Note if sed	iment i	s visible in	the dissolve	d containe	r
-Includes Date/Time/ID/Analysis Matrix:	14/11/		□N/A	12.						
All containers needing acid/base preservation have checked?	peen									
All containers needing preservation are female.	Yes	□No	□N/A	13.						
(HNU3, H2SO4, HCI<2: NaOH SQ Sulfida NaOH sa	inide) Viyes	□No	□n/a							
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg			LIN/A							
Samples checked for dechlorination	□Yes	□No	□N/A							
Headspace in VOA Vials (>5-6mm)?	Yes	□No	N/A	14.						
Trip Blank Present?	□Yes	□No	N/A	15.						
Trip Blank Custody Seals Present?	□Yes	□No	M/A	16.						
Pace Trip Blank Lot # (if purchased):	□Yes	□No	N/A							
CLIENT NOTIFICATION/RESOLUTION										
							Field Data	Required?	DVes D	TNO
Person Contacted:				Dat	7Tie					טאור
Comments/Resolution:				Date	e/Time:					
Project Manager SCURF Review:	MG				ř					
	TACA				Date:	4	125/1	6		
Project Manager SRF Review:	mb					1/	10,1			
Out of hold, incorrect process and is discrepancy affecting North Ca	rolina compliance	samples	a copy of t		Date:	4	26/1			
Note: Whenever there is a discrepancy affecting North Ca Out of hold, incorrect preservative, out of temp, incorrect	containers)	pics,	a copy of t	iiis fori	n will be sen	t to the	North Caro	ina DEHNR (	Certification	Office (i.e.

Pace Analytical

# The Chain of Cardody is a LLCAL DOCUMENT. All relevand holds must be completed accurately CHAIN-OF-CUSTODY / Analytical Request Document

1<del>00015</del>46P<sup>age 12 of 19</sup>

addings GOINT USSO mail to:
MOIMAND B. GOIDAN, COM
MOSSING FOR NICE - 2 CK-74. Section A
Required Client Information: equested Due Date/TAT: AND WIND MAIN M SOIL & STORES Richmond, VA 23227 Required Client Information 364-358-74 Project Name: Bremo Drinking Water Water Waste Water Product Soil/Solid Matrix Codes MATRIX / CODE Copy To, 100-diffunces classes ion Project Number: Purchase Order No.: REPORT TO MUTMUNDER 401 DET. COM Section B
Required Project Information: SE PW WIN ee valid codes to left) GRAB C=COMP) 1520347, 2 cas COLLECTED Pace Quote Reference: Pace Project Manager: Pace Profile # Address: Company Name: Section C nvoice Information: Preservatives Actionts Payable Golden Assor. Y/N Requested Analysis Litered (Y/N) REGULATORY AGENCY Site Location TSU NPDES RCRA GROUND WATER VA Page: OTHER 으 DRINKING WATER

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a	NaOH NaOH
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>
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DATE Signed (MM/DD/YY):	Free Cyunik
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Temp in °C  Received on Ice (Y/N)	Residual Chlorine (Y/N)
ice (T/N)	Pace F PACE S. 1.2 DH= 8.7.2 SAMPLE CO
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Sealed Cooler (Y/N)	
	Pace Project No. 1 Lab I.D  ## - \$.7 final > 1121  ## - \$.1 final > 1203  SAMPLE CONDITIONS
Samples Intact (Y/N)	1 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	22

F-ALL-Q-020rev.07, 15-May-2007



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

#### ANALYTICAL RESULTS

Prepared by:

Prepared for:

Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601 Pace Analytical Services Suite 100 9800 Kincey Ave Huntersville NC 28078

Report Date: April 26, 2016

Project: Bremo

Submittal Date: 04/26/2016 Group Number: 1654130 PO Number: 14693 NMG State of Sample Origin: VA

 Client Sample Description
 (LL) #

 T3-160425-1125-S3 Water Sample
 8350325

 T4-160425-1200-S3 Water Sample
 8350326

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <a href="http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/">http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/</a>.

Electronic Copy To Pace Analytical Services Attn: Nicole Gasiorowski

Respectfully Submitted,

Bonnie Stadelmann Senior Project Manager

Bornie Stadelmann

(312) 590-3133



#### Lancaster Laboratories Environmental

## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: T3-160425-1125-S3 Water Sample

92295107001

Bremo

LL Sample # WW 8350325 LL Group # 1654130

Account # 10945

Project Name: Bremo

Submitted: 04/26/2016 09:15

Reported: 04/26/2016 14:54

Collected: 04/25/2016 11:25 Pace Analytical Services

Suite 100

9800 Kincey Ave

Huntersville NC 28078

CAT

Analysis Name CAS Number

Result

Limit of Quantitation Dilution Factor

......

mg/1

Wet Chemistry 12941 Free Cyanide

No.

OIA-1677-09 n.a. **mg/l** < 10.0

10.0

1

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

#### Laboratory Sample Analysis Record

CAT	Analysis Name	Name Method		Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
12941	Free Cyanide	OIA-1677-09	1	16117941101A	04/26/2016 11:	45 Joseph E McKenzie	1



#### Lancaster Laboratories Environmental

## **Analysis Report**

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: T4-160425-1200-S3 Water Sample

92295107002

Bremo

LL Sample # WW 8350326

LL Group # 1654130 Account # 10945

1

Project Name: Bremo

Submitted: 04/26/2016 09:15

Reported: 04/26/2016 14:54

Collected: 04/25/2016 12:00 Pace Analytical Services

Suite 100

9800 Kincey Ave

Huntersville NC 28078

CAT Limit of Dilution No. Analysis Name CAS Number Result Quantitation Factor

 Wet Chemistry
 OIA-1677-09
 mg/l
 mg/l

 12941 Free Cyanide
 n.a.
 < 10.0</td>
 10.0

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

 CAT
 Analysis
 Name
 Method
 Trial#
 Batch#
 Analysis
 Analysis
 Analysis
 Dilution

 No.
 12941
 Free Cyanide
 OIA-1677-09
 1
 16117941101A
 04/26/2016
 11:47
 Joseph E McKenzie
 1



#### **Lancaster Laboratories Environmental**

## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

#### Quality Control Summary

Group Number: 1654130 Client Name: Pace Analytical Services

Reported: 04/26/2016 14:54

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

#### Method Blank

Analysis Name Result mq/1mg/l

Sample number(s): 8350325-8350326 Batch number: 16117941101A 10.0

Free Cyanide

#### LCS/LCSD

Analysis Name	LCS Spike Added mg/l	LCS Conc mg/l	LCSD Spike Added mg/l	LCSD Conc mg/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 16117941101A	Sample numbe	r(s): 8350	325-8350326						
Free Cyanide	0.0400	0.0426			107		86-132		

#### MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc mg/l	MS Spike Added mg/l	MS Conc mg/l	MSD Spike Added mg/l	MSD Conc mg/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16117941101A	-			326 UNSPK: 1						
Free Cyanide	< 0.0060	0.0200	0.0165	0.0200	0.0171	83*	85*	86-132	3	3

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

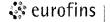
<sup>\*-</sup> Outside of specification

<sup>(1)</sup> The result for one or both determinations was less than five times the LOQ.

<sup>(2)</sup> The unspiked result was more than four times the spike added.

Chain of Custody 10945 /1654130 /8350325 - 26

Workorder: 92295107			Workorder Name: BREMO							R	Results Requested					~ 4/27	7/20 <sup>-</sup>	16							
Repor	t / Invoice	To	Subcontract To 4									Requested Analysis									T.	CONTRACTOR			
Nicole Gasiorowski Pace Analytical Charlotte 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 Phone (704)875-9092 Email: nicole.gasiorowski@pa			Samply Administration P.O. 14693 NWG Eurofins Lancaster Laboratories 2425 New Holland Pite Environmental										014-16-47												
Item	Sample II	*		Collect Date/Tim		Lab ID		Matrix	₩G H				EV-00	1	700									LAB USI	E ONLY
1	T3-160425-1125-53		4/25/2016 11:2		6 11:25	92295107001		Water	2				X										1		
2	T4-160425-1200-53			4/25/2016 12:00		92295107002		Water	2				X	T	1					_	$\neg$	1	$\top$	<u> </u>	
3	4												一	十							-	1-	1—		
4													$\top$	1	1	1			-	_		┪	1-		
5													1	╅	1-						-	╅	-		
Transf	ers Rel	eased By		Date/Tim		ne Received By				Date/Tim			ime	1						Cor	mmer	its			
1	-15	1 Sland	>		4-25/	17:00			•				AND DESCRIPTION OF	ヿ											
2						and the second second		The state of the s					·	+		é									
3 and the second and							420-16/				1915	Va Sam					iple >								
Coole	r Tempe	rature on Re	ceipt 2.8 °C Custody Seal Y or					Y or (	77	1)									Samples Intact (Y) or N						
			Jan Jan									inhie	:5 IIII	act	Y) or N										



Lancaster Laboratories Environmental

# Sample Administration Receipt Documentation Log

Doc Log ID:

144190

Group Number(s):

1654130

Client: Pace Analytical

**Delivery and Receipt Information** 

**Delivery Method:** 

Fed Ex

Arrival Timestamp:

04/26/2016 9:15

Number of Packages:

1

Number of Projects:

1

**Arrival Condition Summary** 

Shipping Container Sealed:

Yes

Sample IDs on COC match Containers:

Yes

Custody Seal Present:

No

Sample Date/Times match COC:

Yes

Samples Chilled:

Yes

VOA Vial Headspace ≥ 6mm:

N/A

Paperwork Enclosed:

Yes Yes Total Trip Blank Qty:

Air Quality Samples Present:

No

Samples Intact: Missing Samples:

No

Extra Samples:

No

Discrepancy in Container Qty on COC:

No

Unpacked by Timothy Cubberley (6520) at 09:59 on 04/26/2016

Samples Chilled Details

Thermometer Types:

DT = Digital (Temp. Bottle)

IR = Infrared (Surface Temp)

All Temperatures in °C.

Cooler # Thermometer ID Corrected Temp Therm. Type Ice Type Ice Present? Ice Container Elevated Temp?

1 DT131 2.8 DT Wet Y Loose N

T | 717-656-2300 F | 717-656-2630 00045466759erlabs.com



Lancaster Laboratories Environmental

### **Explanation of Symbols and Abbreviations**

The following defines common symbols and abbreviations used in reporting technical data:

RL N.D.	Reporting Limit none detected	BMQL MPN	Below Minimum Quantitation Level Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
С	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
μg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	μL	microliter(s)
		pg/L	picogram/liter

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

**Dry weight basis**Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

#### Laboratory Data Qualifiers:

B - Analyte detected in the blank

C - Result confirmed by reanalysis

E - Concentration exceeds the calibration range

J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)

P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.

U - Analyte was not detected at the value indicated

V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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